UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450

DATE MAILED: 02/03/2011

## NOTICE OF ALLOWANCE AND FEE(S) DUE

23117 7590 02003/2011 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203

EXAMINER					
WOODARD, JOYE L					
ART UNIT	PAPER NUMBER				
1773	•				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,998	09/29/2006	Tatsuya Hidano	427-114	6602

TITLE OF INVENTION: PRE-PURIFICATION UNIT OF CRYOGENIC AIR SEPARATION UNIT, HYDROCARBON ADSORBENT, AND METHOD OF PRE-TREATING FEED AIR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/03/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further e indicated unless correcte maintenance fee notificat	form should be used for correspondence including d below or directed oth ions.	or trang the nerwise	smitting the ISSU Patent, advance or in Block 1, by (a	JE FEE and PUBLICAT: rders and notification of r a) specifying a new corre	ION FEE (if requirements fees visions and fees visions and fees septiments and fees septiments feet fees fees fees fees fees fees fe	ired). I vill be and/o	Blocks 1 through 5 st mailed to the current (b) indicating a sepa	rould be correspondent frate "FF	completed where indence address as E ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Not Fee pap	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
23117	7590 02/03	/2011		nav			of Mailing or Trans		
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									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFI	IRMATION NO.
10/594,998	09/29/2006		·	Tatsuya Hidano			427-I14		6602
TITLE OF INVENTION OF PRE-TREATING FE		UNI	OF CRYOGENI	C AIR SEPARATION U	NIT, HYDROCAR	BON A	DSORBENT, AND M	ÆTHOI	)
APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO		\$1510	\$300	\$0		\$1810		05/03/2011
EXAM	INER		ART UNIT	CLASS-SUBCLASS	1				
WOODARI	O, JOYE L		I773	095-120000	•				
"Fee Address" indi PTO/SB/47; Rev 03-0; Number is required.  3. ASSIGNEE NAME AT	ess an assignee is ident i in 37 CFR 3.II. Comp	" Indicated. Us	ation form e of a Customer E PRINTED ON	(1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or tyl data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	wely, e firm (having as a agent) and the nam meys or agents. If printed.  pe) atent. If an assign assignment.	membes of u no nan	er a 2p to p to e is 3		has been filed for
Please check the appropri		catego		p. Payment of Fee(s): (Plea			on or other private gro		
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Advance Order - #		eriiitto		The Director is hereby overpayment, to Depo	authorized to char	ge the	required fee(s), any de	ficiency, n extra c	or credit any opy of this form).
	SMALL ENTITY state	ıs. See	37 CFR 1.27.	☐ b. Applicant is no lon					
NOTE: The Issue Fee and interest as shown by the r	f Publication Fee (if req ecords of the United Sta	uired) tes Pat	will not be accepte ent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered	attorney or agent; or th	e assign	ee or other party in
Authorized Signature					Date				
Typed or printed name Registration No									
This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.3 U.S.C USPT den, sl NOT	11. The informatic 122 and 37 CFR O. Time will vary hould be sent to th SEND FEES OR	on is required to obtain or i 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS To	retain a benefit by t timated to take 12 or ridual case. Any co er, U.S. Patent and D THIS ADDRESS	he pub minuter mment Trader S. SEN	tic which is to file (and to complete, including s on the amount of tire ark Office, U.S. Deptor of the complete of the comple	by the U g gather ne you r artment of for Paten	JSPTO to process) ing, preparing, and equire to complete of Commerce, P.O. its, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



## UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandra, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	ING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.		
10/594,998	09/29/2006	Tatsuya Hidano	427-114	6602		
23117	7590 02/03/2011		EXAM	UNER		
NIXON & VANDERHYE, PC		WOODARD, JOYE L				
	BE ROAD, 11TH FLO	OR	ART UNIT	PAPER NUMBER		
ARLINGTON, VA 22203			1773			
			DATE MAILED: 02/03/201	1		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 627 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 627 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Notice of Allowability

Application No.	Applicant(s)			
10/594,998	HIDANO ET AL.			
Examiner	Art Unit			
Jove I . Woodard	1773			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTQL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFB 1.313 and MPEP 1308. This communication is responsive to THE AMENDMENT FILED 12/29/2010. 2. The allowed claim(s) is/are 2,12. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: Certified copies of the priority documents have been received. 2. 

Certified copies of the priority documents have been received in Application No. \_\_\_\_ 3. 
☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached 1) hereto or 2) to Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. | Notice of References Cited (PTO-892)

Paper No./Mail Date

- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- Notice of Informal Patent Application
- Interview Summary (PTO-413).
- Paper No./Mail Date 7. 

  Examiner's Amendment/Comment
- 8. T Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/Jill Warden/ Supervisory Patent Examiner, Art Unit 1773